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## **(U) Support to Joint Task Force Katrina: Mosquito Control**

*(DI-1812-992-05, 04 September 2005)*

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### **(U) Intelligence Findings and Analysis**

#### **(U) Scope**

(U) This overview of the health issues and emergency response to Hurricane Katrina was compiled by the Armed Forces Medical Intelligence Center, Defense Intelligence Agency, in support of the Department of Defense Joint Task Force Katrina using information from federal and state agencies.

#### **(U) Mosquito Control Information**

(U) The following was prepared to address a Request for Information regarding when aerial spraying should begin for mosquitoes:

- (U) Aerial spraying with insecticide kills only adult mosquitoes
- (U) Larvicide treatment of standing water can be started immediately to kill mosquito larvae
- (U) Mosquito re-emergence timeline:

--(U) Approximately 3 weeks after the initial flooding event, adult mosquitoes will reemerge and start feeding.

--(U) Approximately 1 week later, the mosquitoes will begin laying eggs

--(U) Approximately 2 to 3 weeks later, new mosquitoes will emerge

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- (U) The mosquito-borne diseases of greatest interest are those that have bird reservoirs and include:
  - (U) West Nile fever
  - (U) Eastern equine encephalitis
- (U) The mosquito species of concern that spread West Nile virus and that feed on both birds and humans:
  - (U) Culex quinquefasciatus
  - (U) Cx. pipiens
  - (U) Cx. restuans
  - (U) Cx. salinarius
- (U) The mosquito species of concern that spread eastern equine encephalitis and that feed on both birds and humans are:
  - (U) Ochlerotatus sollicitans (salt marsh breeders)
  - (U) Aedes vexans (floodwater breeders)

## (U) Key Contacts and Personnel

- (U) Navy Disease Vector Ecology Control Center (DVECC) - Jacksonville, FL
  - (U) Dr. Andy Beck, Sr. Medical Entomologist
    - DSN: 942-2424 x3026
    - [afbeck@dveccjax.med.navy.mil](mailto:afbeck@dveccjax.med.navy.mil)
  - (U) CDR Claiborne, DVECC Director
  - (U) LCDR Lavender, DVECC Deputy Director
- (U) Responding to an RFF, Navy Environmental Preventive Medicine Unit #2 from Norfolk, VA, is deploying a Forward Deployable Preventive Medicine Unit (FDPMU), comprising one Chemical Hazards Team, one Preventive Medicine Team, and an Entomology Team from DVECC, Jacksonville.

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## **(U) Additional Vector Information Contacts**

<http://www.msdh.state.ms.us/msdhsite/index.cfm/29,1121,119,185,pdf/GoddardOnMosquitoes.pdf>

<http://www.msdh.state.ms.us/msdhsite/index.cfm/14,1097,93,html>

<http://environmentalrisk.cornell.edu/WNV/WNVEducDocs/WNVMosqLifeCycle&Control.pdf>

[http://cindi.usgs.gov/hazard/event/west\\_nile/mississippi/ms\\_mosquito\\_oct\\_02.html](http://cindi.usgs.gov/hazard/event/west_nile/mississippi/ms_mosquito_oct_02.html)

[http://www.oph.dhh.louisiana.gov/infectiousdisease/docs/Infectdisealou1\\_04/LaIDAnnual\\_Encephalitis2003.pdf](http://www.oph.dhh.louisiana.gov/infectiousdisease/docs/Infectdisealou1_04/LaIDAnnual_Encephalitis2003.pdf) (Most recent report-2003--from the State of Louisiana on arthropod-borne encephalitis)

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## **(U) Administrative Notes**

(U) Prepared by: AFMIC Operations, (301) 619-7574 or DSN 343-7574.

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